

memorandum

DATE: SEP 04 1998

SUBJECT: Revised Construction Schedule for the ASTD Grand Junction Office Permeable Reactive Treatment Wall Project

TO: Jim Wade, ASTD Program Manager
DOE-Idaho Operations OfficeTom Evans, ASTD Program Manager,
DOE-HQ

The purpose of this memorandum is to update you on the revised schedule for the GJO Permeable Reactive Treatment (PeRT) Wall Project and to explain the rationale for the delay later into FY99.

Attachment 1 is the revised schedule for design finalization, subcontractor and PeRT media procurement, mobilization, construction, and site restoration. The original schedule provided in the November 1997 *Accelerated Site Technology Deployment (ASTD) Deployment Plan for the PeRT Wall for Radionuclides and Metals* (Work Plan). Figure 4-2, page 4-7, presented an October-November 1998 emplacement (toward the end of the 1998 construction season). The revised schedule pushes that emplacement later into FY99 to coincide with the beginning of the 1999 construction season. The rationale for that delay follows.

The PeRT Wall Project was developed to support the ground water remediation component of the approximately 2 million cubic yards of residual uranium mill tailings at the Monticello Mill Site (MMTS). The MMTS is a site listed on the National Priority List (NPL) for remediation per the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). Beginning in FY97 and concluding in FY99, the mill tailings are to be excavated from both the millsite and private peripheral and vicinity properties in the valley and transported to a nearby repository. Ground water contaminated by inorganic constituents in the tailings is migrating off-site in a plume roughly underlying the present Montezuma Creek. The PeRT Wall was to be emplaced down gradient of the MMTS on agricultural land leased from a private party, just to the north of the current Montezuma Creek, to intercept this plume. The location of the current Montezuma Creek was assumed in the Work Plan to remain in this current alignment.

Last week, GJO received a letter from the private property owner stating that this alignment, which had been engineered during the millsite operation in the 1950s, should be moved to more closely conform with the pre-mill alignment. This new alignment is proposed to be located directly over the designed PeRT Wall location. GJO determined that the design would require some modification to account for the northward alignment of Montezuma Creek. A delay until the beginning of the 1999 construction season will allow for finalization of the Montezuma Creek alignment with the private property owner, attendant finalization of the revised PeRT Wall design to the south of this alignment, and the procurement lead times.

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Jim Wade
Tom Evans

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The benefits of this delay further into FY99 are significant. The regulatory agencies, while working diligently to meet our schedule of reviews, would appreciate the additional time to finalize the regulatory and technical aspects of this initial use of a PeRT Wall as an Interim Remedial Action at a CERCLA site. The property owner appreciates the ability to realign the Creek to better fit his long-term uses of his land, ensuring his good will toward the DOE and continued good relations regarding other aspects of the cleanup on his property. The subsequent deployment sites (Paducah, Shiprock, and Bureau of Land Management) will have the opportunity now to better observe the regulatory acceptance process, from which they can then transfer the lessons learned to their own stakeholder and regulatory processes. And most significantly, the northward realignment of Montezuma Creek allows the PeRT Wall to be placed more closely within the centroid of the ground water plume, thereby potentially reducing the size and costs of the impermeable sections required to direct the plume through the reactive gate.

GJO will be ready to discuss this change during the EMAB review scheduled for September 9, 1998. If you have further questions, do not hesitate to contact me at your convenience at 970/248-7735.



Vernon A. Cromwell
PeRT Wall Project Manager

Attachment

cc w/attachment:

S. Chamberlain, DOE-HQ

J. Wright, DOE-SR

C. Lanigan, DOE-SR

P. Saxman, DOE-AL

P. Mushovic, EPA Region VIII

D. Bird, Utah Department of Environmental Quality

W. Goldberg, Mountain States Energy

B. Dwyer, SNL

D. Blowes, University of Waterloo

C. Carpenter, MACTEC-ERS

I. Stewart, MACTEC-ERS

MMTS Administrative Record (L. Hollingsworth, Monticello)

Activity ID	Activity Description	Early Start	Early Finish	Orig Dur	FY98												FY99												FY00												FY01												FY02											
					D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A																			
Permeable Reactive Treatment Wall (PeRT Wall)																																																																
PeRT QS:Review of Monticello Data-WBS:1121011101																																																																
A10	Review of Monticello Data	09MAR98A	17APR98A	20	Review of Monticello Data																																																											
PeRT QS:Reg. Interface/Permitting-WBS:1121011102																																																																
A20	Regulatory Interface/Permitting	20JAN98A	03MAY99	333	Regulatory Interface/Permitting																																																											
A21	Regulatory Approval		03MAY99	0	Regulatory Approval																																																											
A22	Landowner Approval		08JUN98A	0	Landowner Approval																																																											
PeRT QS : Characterization - WBS:1121011103																																																																
A30	Site Characterization	26MAY98A	06AUG98	47	Site Characterization																																																											
A31	Characterization Letter Report		04SEP98	0	Characterization Letter Report																																																											
PeRT QS : Tracer Study - WBS:1121011104																																																																
A40	Tracer Study Design	06APR98A	21MAY98A	41	Tracer Study Design																																																											
PeRT QS : Performance Modeling - WBS:1121011105																																																																
A50	Performance Modeling	26FEB98A	26AUG98	84	Performance Modeling																																																											
A51	Performance Modeling Letter Report		26AUG98	0	Performance Modeling Letter Report																																																											
PeRT QS : Risk Assessment Impacts-WBS:1121011106																																																																
A60	Risk Assessment Impacts	04MAR98A	17MAR98A	20	Risk Assessment Impacts																																																											
A61	Risk Assessment Memo to File		17MAR98A	0	Risk Assessment Memo to File																																																											
PeRT QS : Lab Treatability Study -WBS:1121011107																																																																
A70	Laboratory Treatability Study	28JAN98A	15MAY98A	64	Laboratory Treatability Study																																																											
A71	Issue Memorandum for Lab. Treatability Study		19JUN98*	0	Issue Memorandum for Lab. Treatability Study																																																											
PeRT QS: Field Treatability Study-WBS:1121011108																																																																
A80	Field Treatability Study	13APR98A	30OCT98	106	Field Treatability Study																																																											
A81	Field Treatability Study Report		30OCT98	0	Field Treatability Study Report																																																											
PeRT QS : Design of PeRT Wall - WBS : 1121011109																																																																
A90	Design PeRT Wall	01OCT98*	30APR99	144	Design PeRT Wall																																																											
A92	Complete 90% Design Specs/Drawings		15JAN99	0	Complete 90% Design Specs/Drawings																																																											
A94	Complete 100% Design Specs/Drawings		03MAY99	0	Complete 100% Design Specs/Drawings																																																											
PeRT QS:Design Monitoring Network-WBS:1121011110																																																																
A100	Design Monitoring Network	01OCT98	02APR99	124	Design Monitoring Network																																																											
A101	Monitoring Network Report		02APR99	0	Monitoring Network Report																																																											
PeRT QS:Integrate PeRT Projects-WBS:1121011111																																																																
A110	Integration of PeRT Projects	20JAN98A	28SEP01	928*	Integration of PeRT Projects																																																											
PeRT QS : Project Mgmt. & Control-WBS:1121011112																																																																
A120	Project Mgmt. and Control	20JAN98A	28SEP01	928*	Project Mgmt. and Control																																																											
A121	Site Baseline Modified		20JAN98A	0	Site Baseline Modified																																																											
PeRT IS: Construction Preparation-WBS:1121021101																																																																
B10	Construction Preparation Reactive Wall	01OCT98*	03MAY99	145	Construction Preparation Reactive Wall																																																											
B11	Issue RFP	01MAR99		0	Issue RFP																																																											
B12	Award Construction Subcontract	16APR99		0	Award Construction Subcontract																																																											
B13	Delivery of PeRT Wall Materials	03MAY99		0	Delivery of PeRT Wall Materials																																																											
B14	Health & Safety Plan	05MAR99		0	Health & Safety Plan																																																											
B15	Readiness Review	30APR99		0	Readiness Review																																																											
PeRT IS : Site Preparation - WBS: 1121021102																																																																
B20	Site Preparation	15APR99	30APR99	12	Site Preparation																																																											
PeRT IS : Emplacement - WBS : 1121021103																																																																
B30	Emplacement Reactive Wall	03MAY99	23JUL99	58	Emplacement Reactive Wall																																																											
B31	Emplace Reactive PeRT Wall		23JUL99	0	Emplace Reactive PeRT Wall																																																											
PeRT IS : Mob/Demob - WBS:1121021104																																																																
B40	Mobilization	03MAY99	03MAY99	1	Mobilization																																																											
B41	Demobilization	23JUL99	23JUL99	1	Demobilization																																																											

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